

Patent Abstracts of Japan

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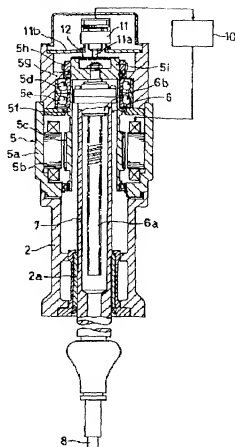
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TITLE : MOTOR DRIVEN SPOT WELDING GUN



ABSTRACT : PROBLEM TO BE SOLVED: To improve impact resistance by connecting the input shaft of an encoder to a rotor through a cushioning member that absorbs such impact in the shaft direction as is actuated through the rotor.

SOLUTION: An upper electrode tip 8 is made to open/close against the other electrode tip through a feed screw mechanism 6 by a servo motor 5. The turning angle is detected of the rotor 5c of the servo motor 5 with an encoder 11. The input shaft 11a of the encoder 11 is connected to the rotor 5c through a cushioning member 12. The cushioning member 12 absorbs impact, in the shaft direction, that actuates through the rotor 5c. The cushioning member 12 is constituted of a plate material having plural spokes extending outward radially from a hub part that connects the input shaft 11a of the encoder 11. Each spoke part is formed with a part bent in a corrugated shape against a face orthogonally crossing the axial line of the rotor, with the outer end of each spoke part connected to the cylindrical connector at the shaft end of the rotor.

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